

INTERNATIONALSEARCHREPORT

International application No.

PCT/JP2005/001306

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl.⁷ F25B39/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl.⁷ F25B39/04

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Published examined utility model applications of Japan 1922-1996
 Published unexamined utility model applications of Japan 1971-2005
 Registered utility model specifications of Japan 1996-2005
 Published registered utility model applications of Japan 1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	JP 10-205920 A (CALSONIC CORPORATION) 1998.08.04, Paragraph 0012-0024, Fig.1 (No Family)	1-3, 11 4, 5, 13-17
Y	JP 2002-372340 A (CALSONIC KANSEI CORPORATION) 2002.12.26, Paragraph 0025, 0037, 0038, Fig.2 (No Family)	4, 9
Y	JP 5-117682 A (IDEMITSU KOSAN CO. LTD.) 1993.05.14, Paragraph 0008 & US 5295357 A	5, 10, 13-17
X Y	JP 7-180930 A (DENSO CORPORATION) 1995.07.18, Paragraph 0013-0039, Fig.1 (No Family)	6-8, 12 9, 10, 13-17

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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Date of the actual completion of the international search

17.05.2005

Date of mailing of the international search report

31.5.2005

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